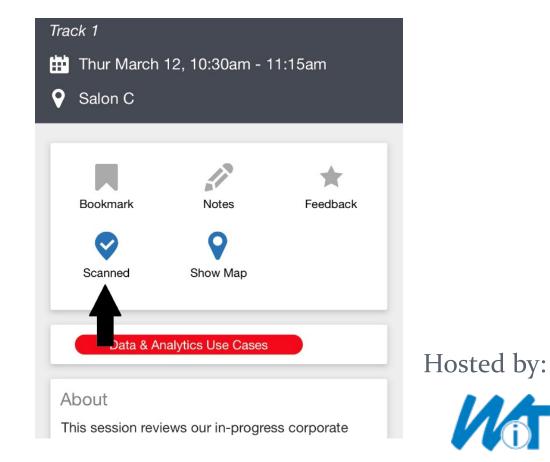


Welcome! The presentation will begin shortly

If your badge was not scanned at the door, please use the self check-in feature in the session details in the Schedule.



Key Topics:

The New Crystal Ball:

What's Your Data Telling You?



Data

Capturing data can be easy, highlighting the importance of capturing the right data.

Information

Data with history can provide information of what has happened providing the opportunity for insight.

Knowledge

(ů

Data with context provides the opportunity to augment and potentially automate decisions.

Need Help Making Decisions?

Plex Systems Highlights

650+

customers

2307 facilities



100% Manufacturing ERP, MES & IIoT

True multi-tenant SaaS

23 countries



renewal rate

99.998%

up-time prior 12 months

Growth Investment:

T.RowePrice



One code base, one community

Happiest ERP customers in history





INDUSTRY 1.0

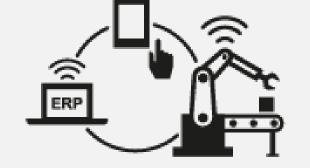
Mechanization, steam power, weaving loom Mass production, assembly line, electrical energy

Automation, computers and electronics

Cyber Physical Systems, internet of things, networks

(





INDUSTRY 4.0

INDUSTRY 2.0



Technology is Advancing

at unprecedented rates.

Why?

(Most of this technology has been around for decades)





Industry 4.0



WIRELESS CONNECTIVITY Data collection without infrastructure



CLOUD COMPUTING Powerful processing with low cost



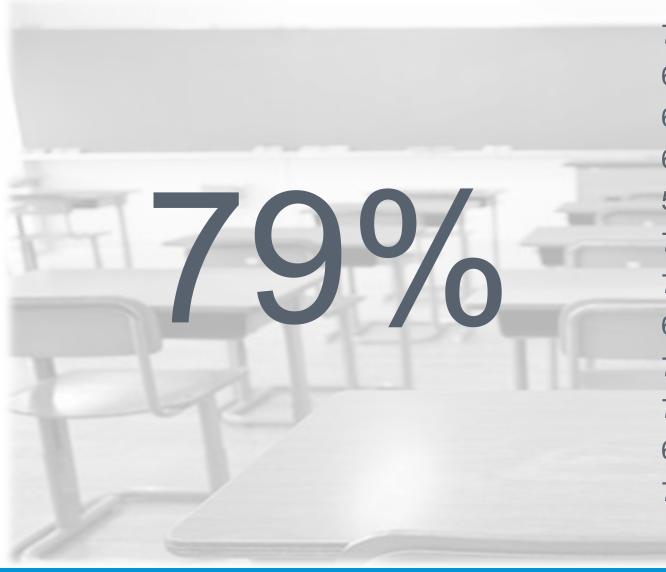
SENSORS AND MODULARITY Affordable, durable, and tiny



INFORMATION STANDARDS Data shared across multiple systems



Data vs. Information

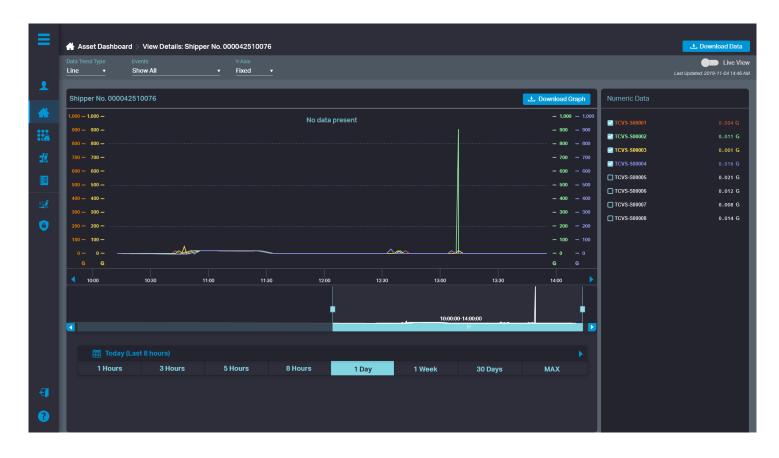


78% 63% 60% 62% 59% 71% 79% 65% 75% 72% 65% 73%

68%



Information

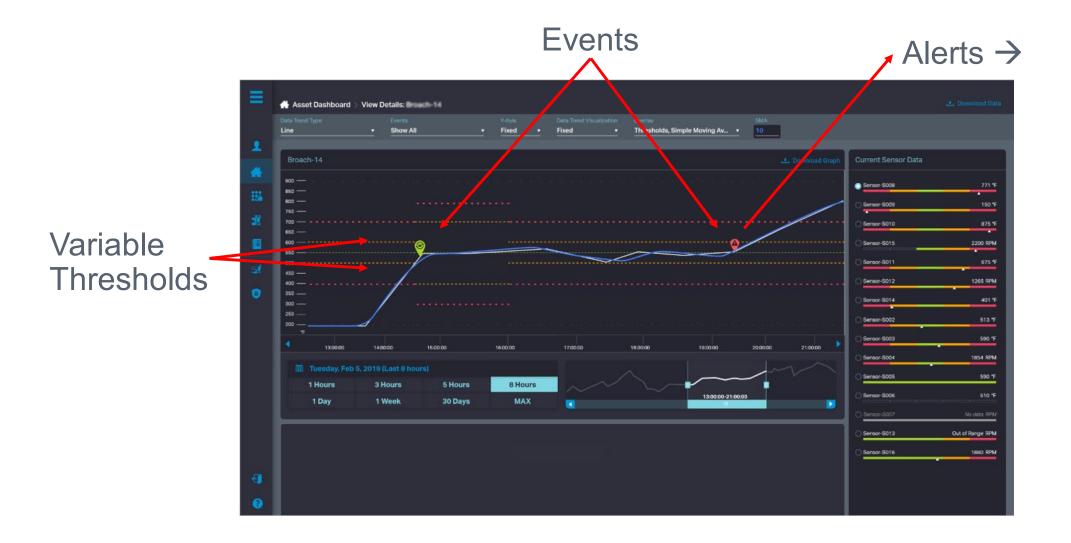


Data over time provides Information

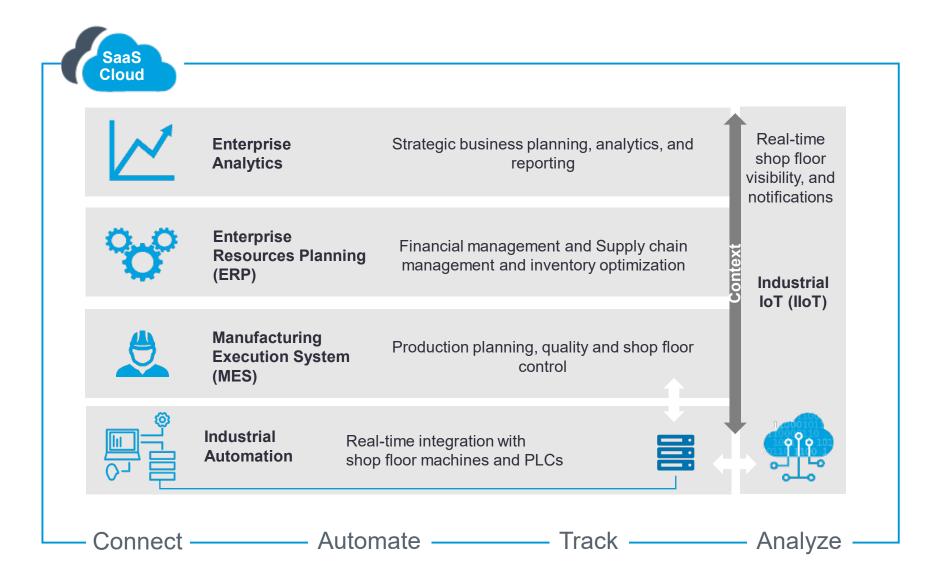
- What ?
- When ?
- Where ?



Information

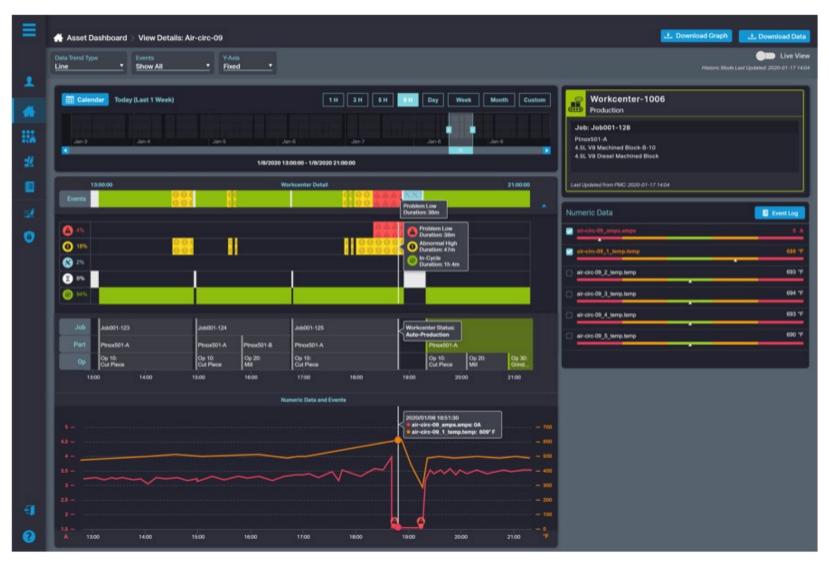








Data in Context Drives Knowledge





What is the Crystal Ball Telling us About Manufacturing?



- Put Data to work!
 - 40% of manufacturing workforce retiring in next 10 years
 - Machine learning through contextual insights
 - Trend and insights around process data surrounding the manufacturing process
 - Humidity
 - Quality
 - Imaging
 - Etc.
 - And more!



Value of Data for Manufacturers

Connected Assets

- Asset health monitoring
- Performance issue notifications
- Predictive maintenance



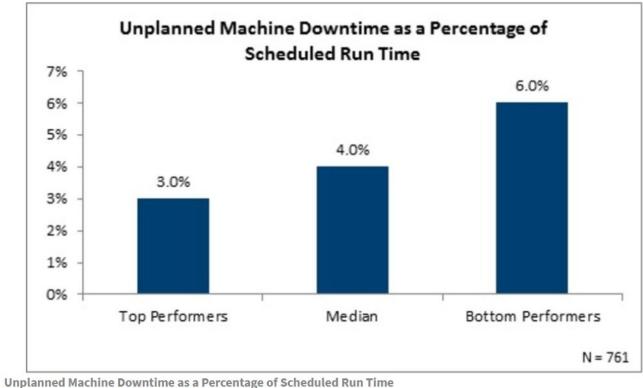
Connected Business

- Maintenance Monitoring
- Enhanced communication
- Early warning for disruptions





Why Asset Performance? Unplanned Downtime Affects Everyone



APQC's Open Standards Benchmarking in Manufacturing,

Challenge

- Reduce unplanned downtime to keep critical equipment running
- Early warning for equipment that is failing
- Understand why equipment failed

Solution

- Monitor what is happening regarding critical equipment performance
- Predict what will happen and send alerts
- Review historical data to learn what happened



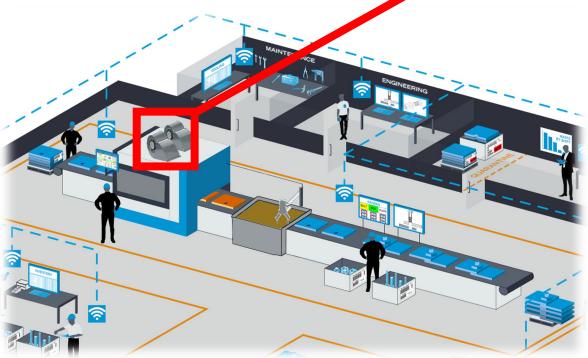
Monitor Your Assets

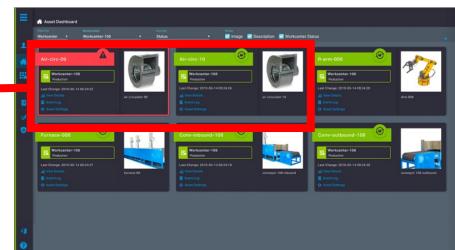


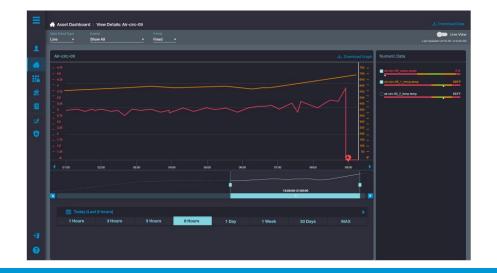


Drill Down to Understand If There is a Problem

- Machine Status: In Cycle, Idle, Problem, Off
- Any Boolean or Numeric Data Stream
- Event Log

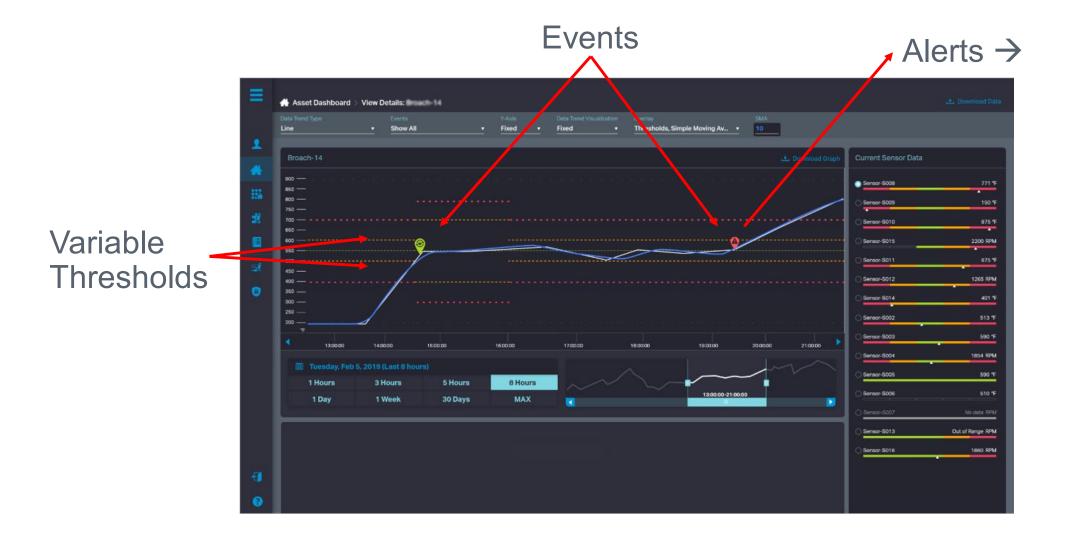








Notify Operator





Value of Data for Manufacturers

Connected Assets

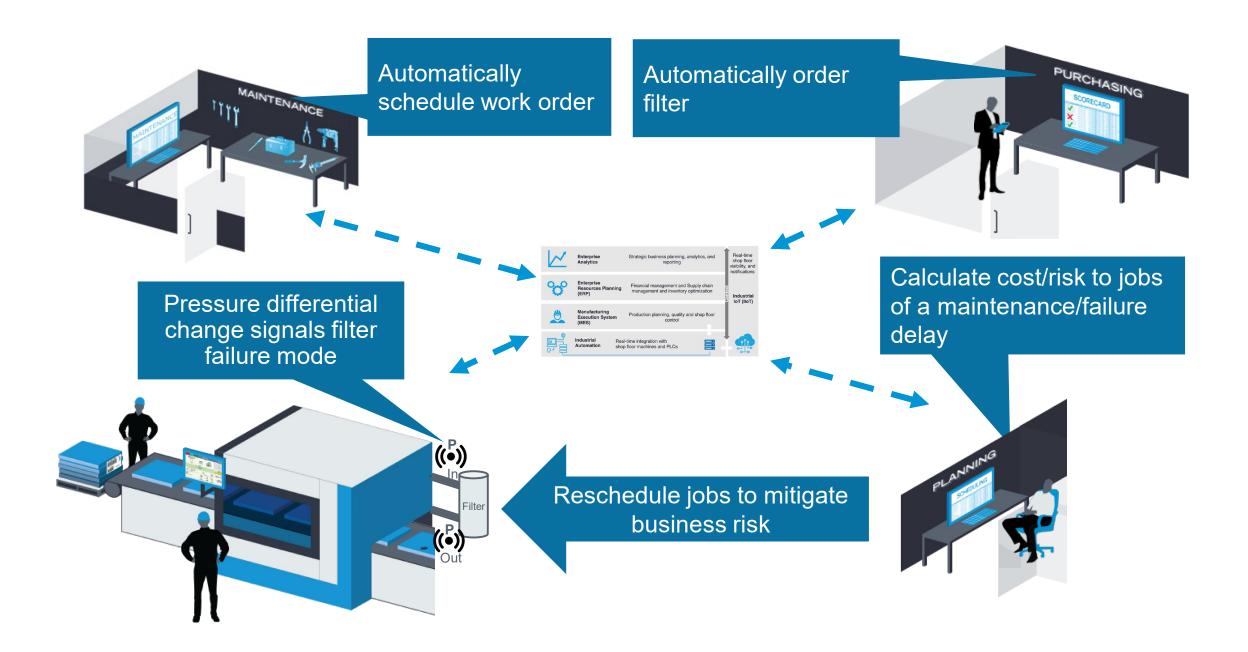
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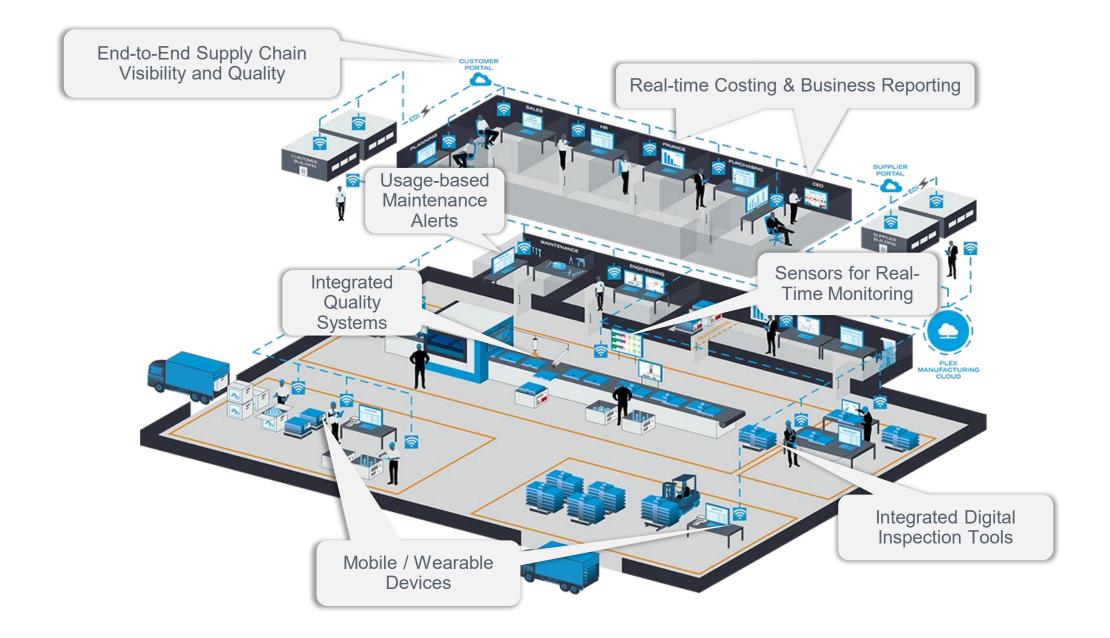
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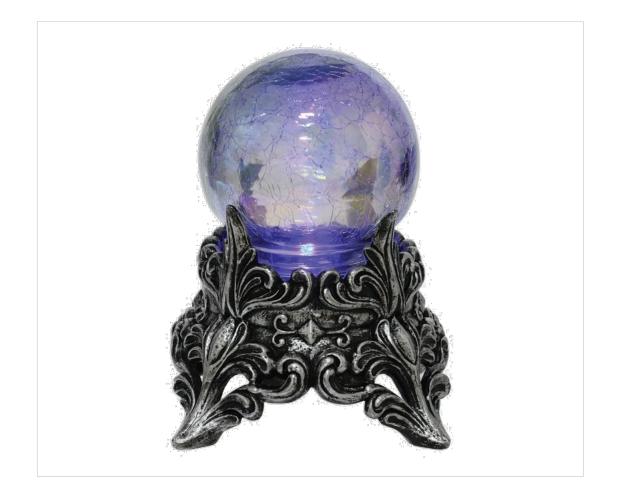








Crystal Ball of Data



• Single pane of glass

Accessible

• Timely



Key Takeaways

- Data creation is not the challenge, creating the right data at the right time is important
- Technology is only part of the answer, leveraging technology to create data in context builds knowledge and value
- Practical use cases exist to leverage data that can augment and automate decisions













Thursday, March 12, 2020 | Metro Detroit

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